

FIG. 4a

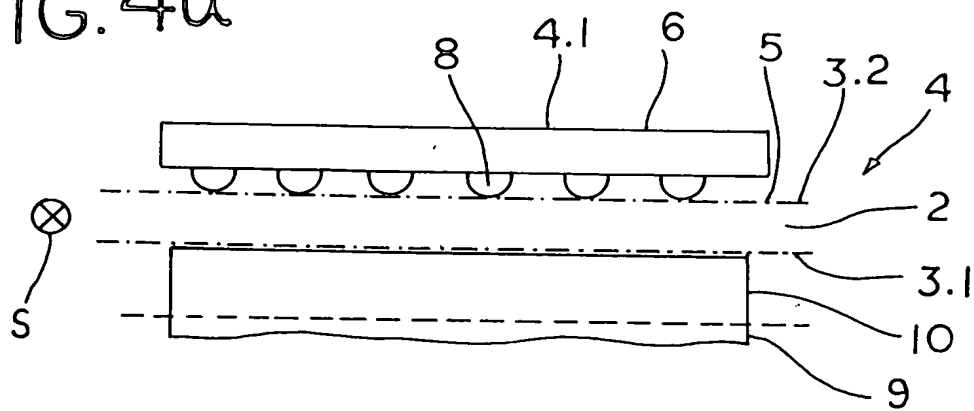


FIG. 4b

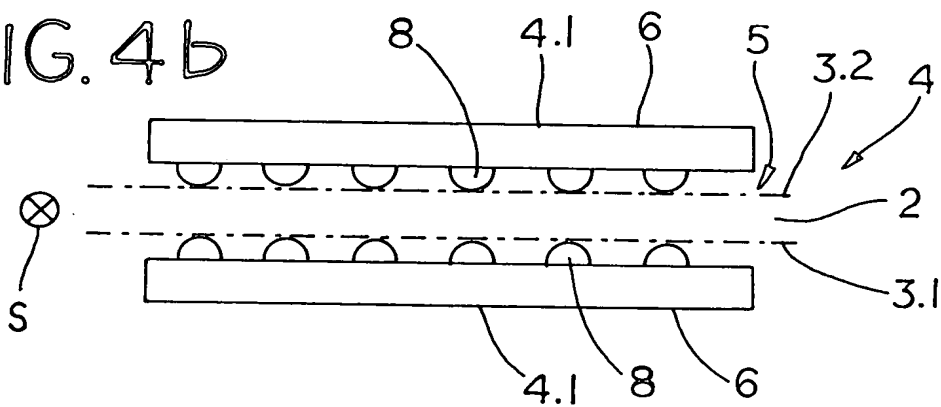


FIG. 4c

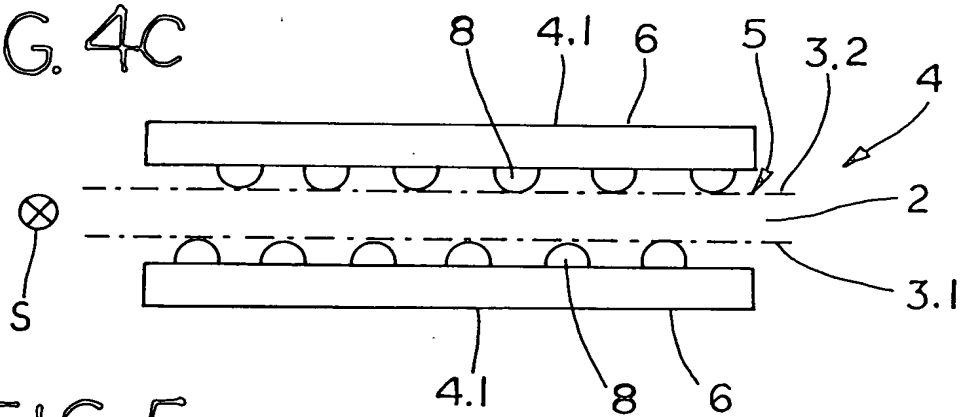


FIG. 5

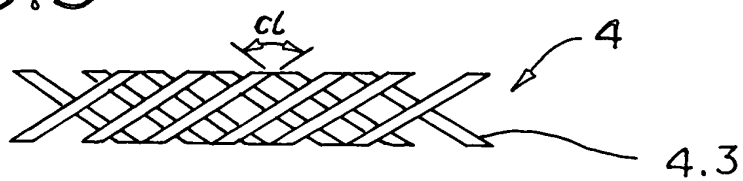


FIG. 6

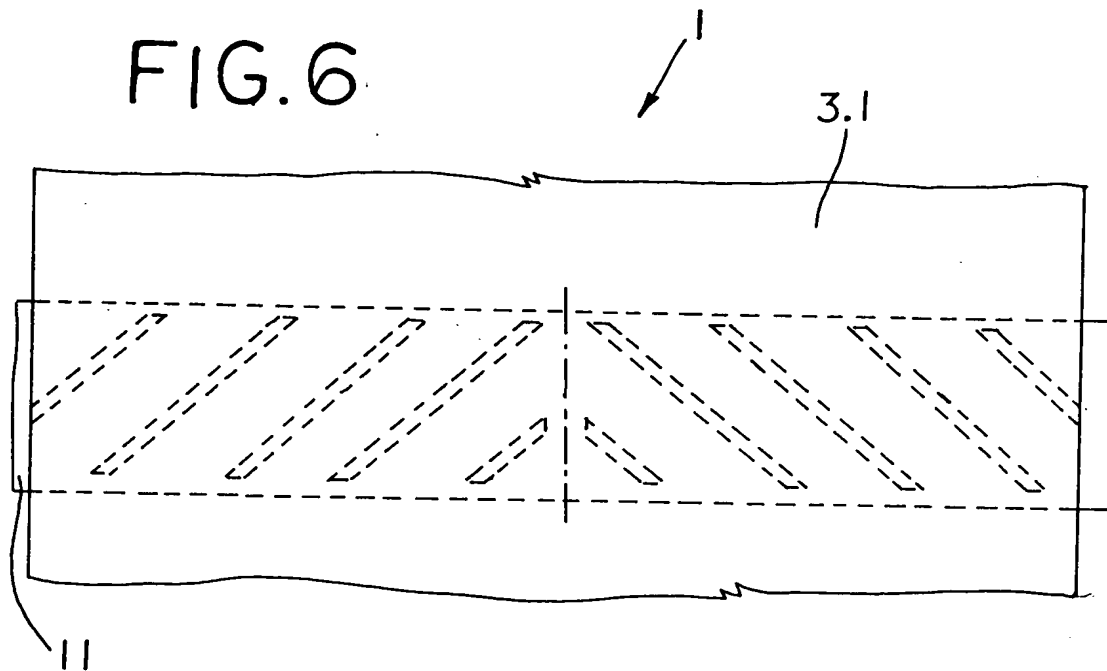


FIG. 7

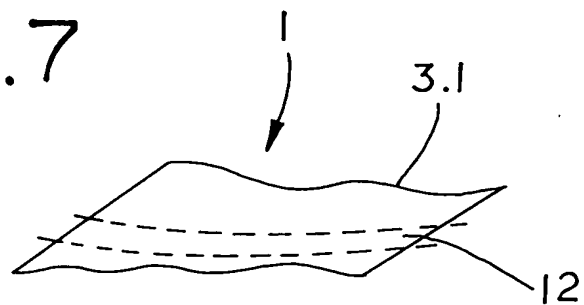


FIG. 8

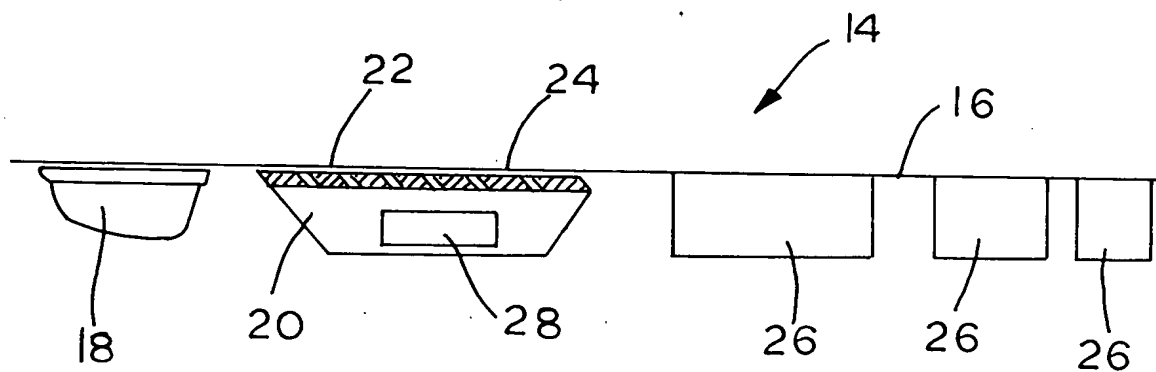
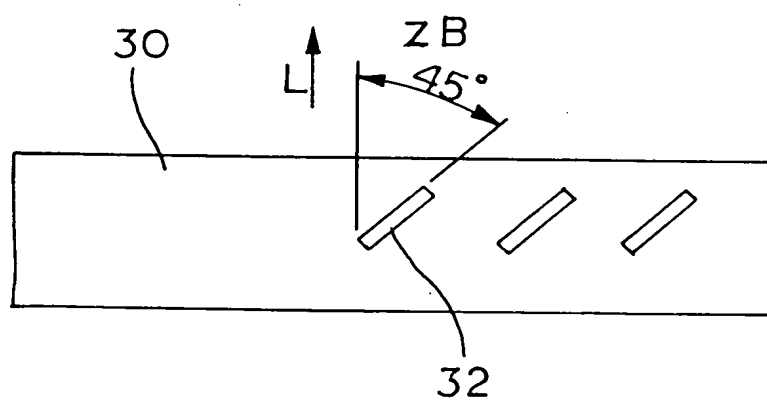


FIG. 9



TEAR LENGTH RELATIONSHIP LONGITUDINAL/TRANSVERSE L/Q [-]

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TENSILE STIFFNESS RELATIONSHIP LONGITUDINAL/TRANSVERSE
WITH AND WITHOUT VACUUM

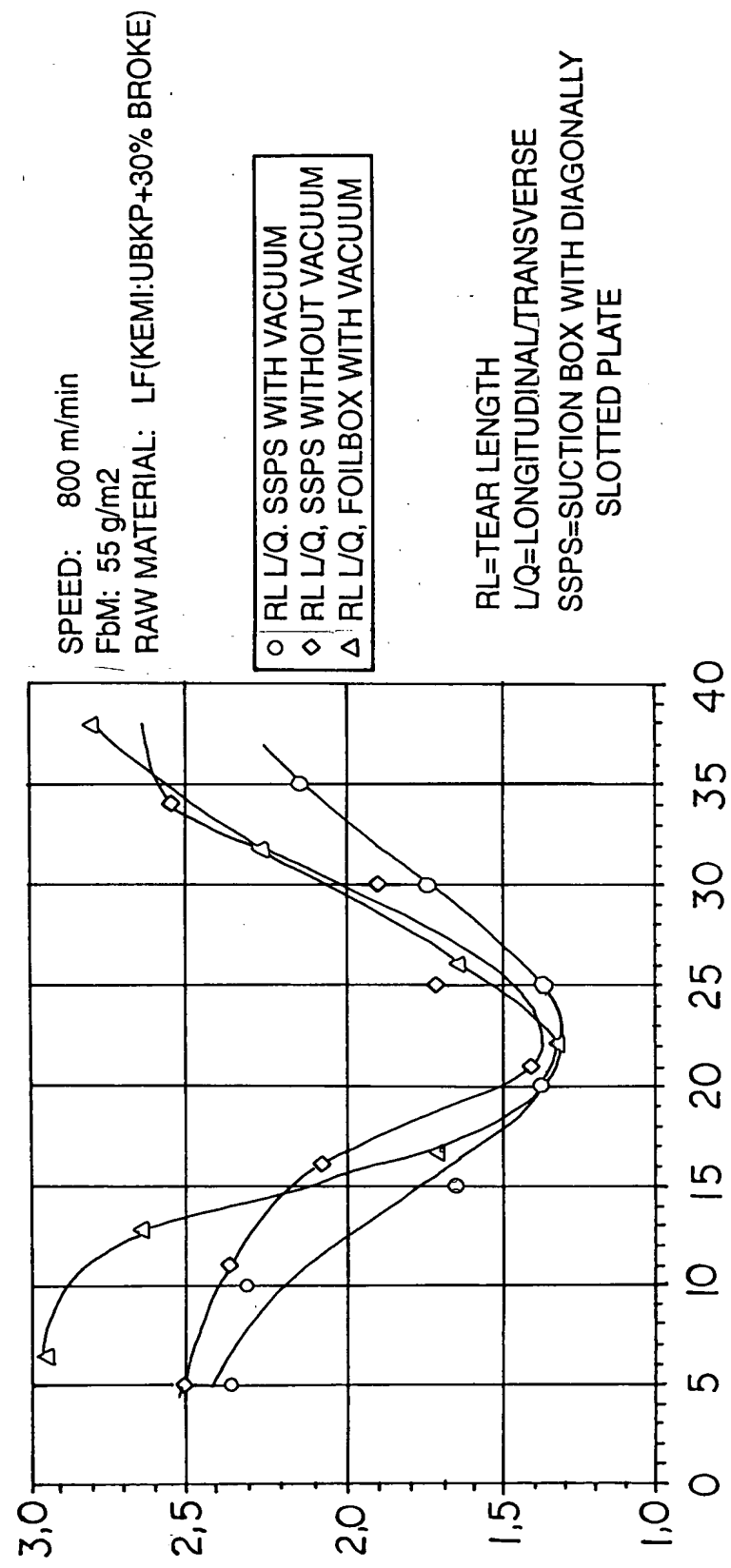
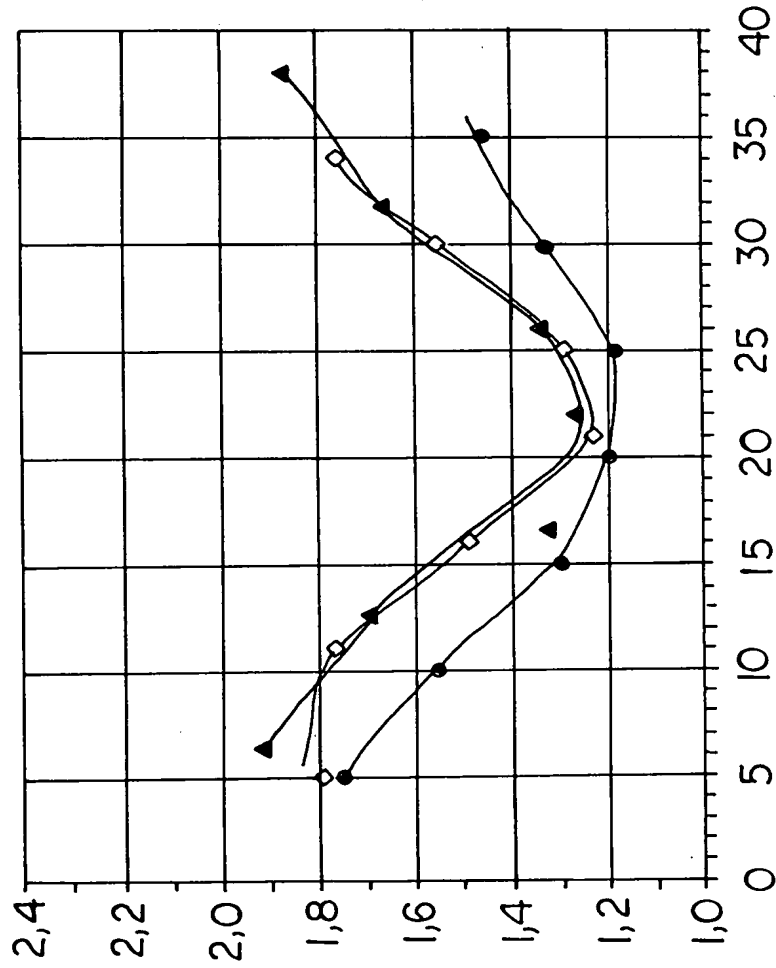


FIG.10

SPEED DIFFERENTIAL V jet-V wire [m/min]

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TENSILE STIFFNESS RELATIONSHIP LONGITUDINAL/TRANSVERSE
WITH AND WITHOUT VACUUM

TSI (TENSILE STIFFNESS INDEX) RELATIONSHIP
LONGITUDINAL/TRANSVERSE [-]



SPEED: 800 m/min

FbM: 55 g/m²

RAW MATERIAL: LF(KEMI:UBKP+30% BROKE)

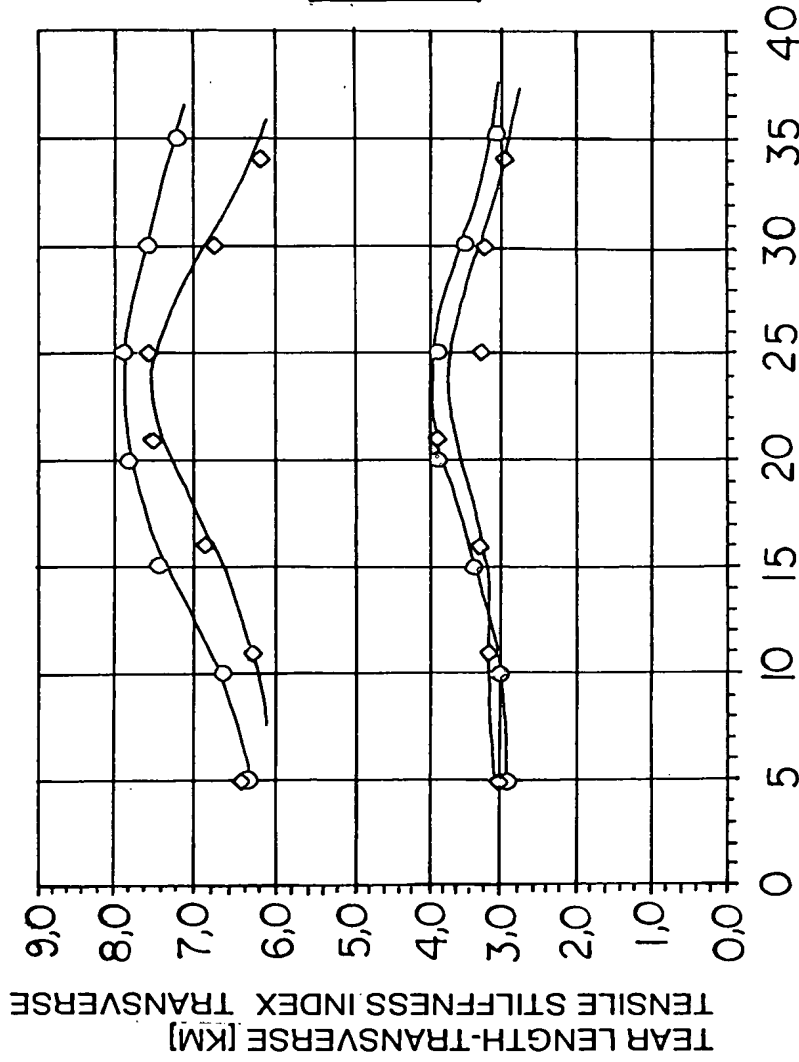
- TSI L/Q, SSPS WITH VACUUM
- ◊ TSI L/Q, SSPS WITHOUT VACUUM
- ▲ TSI L/Q, FOILBOX WITH VACUUM

TSI=TENSILE STIFFNESS INDEX
L/Q=LONGITUDINAL/TRANSVERSE
SSPS=SUCTION BOX WITH DIAGONALLY
SLOTTED PLATE

FIG.11

SPEED DIFFERENTIAL V jet-V wire [m/min]

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TRANSVERSE STRENGTH WITH AND WITHOUT VACUUM ON THE
DIAGONALLY SLOTTED PLATE SUCTION BOX



SPEED: 800 M/MIN.
FbM: 55 g/m²
RAW MATERIAL: LF(KEMI:UBKP+30% BROKE)

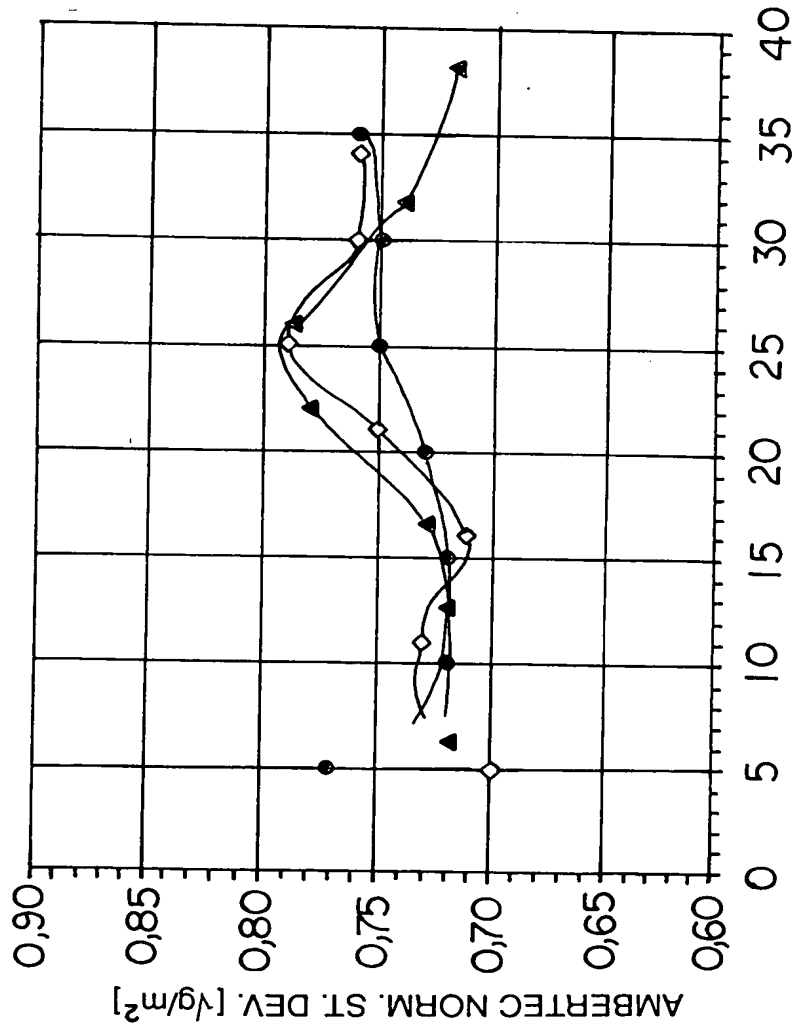
- RL L/Q, SSPS WITH VACUUM
- ◇ RL L/Q, SSPS WITHOUT VACUUM
- TSI L/Q, SSPS WITH VACUUM
- ◇ TSI L/Q, SSPS WITHOUT VACUUM

RL=TEAR LENGTH
L/Q=LONGITUDINAL/TRANSVERSE
TSI=TENSILE STIFFNESS INDEX
SSPS=SUCTION BOX WITH DIAGONALLY
SLOTTED PLATE

FIG.12

SPEED DIFFERENTIAL V jet-V wire [m/min]

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE FORMATION WITH AND WITHOUT VACUUM



SPEED: 800 m/min
FbM: 55 g/m²
RAW MATERIAL: LF(KEMI:UBKP+30% BROKE)

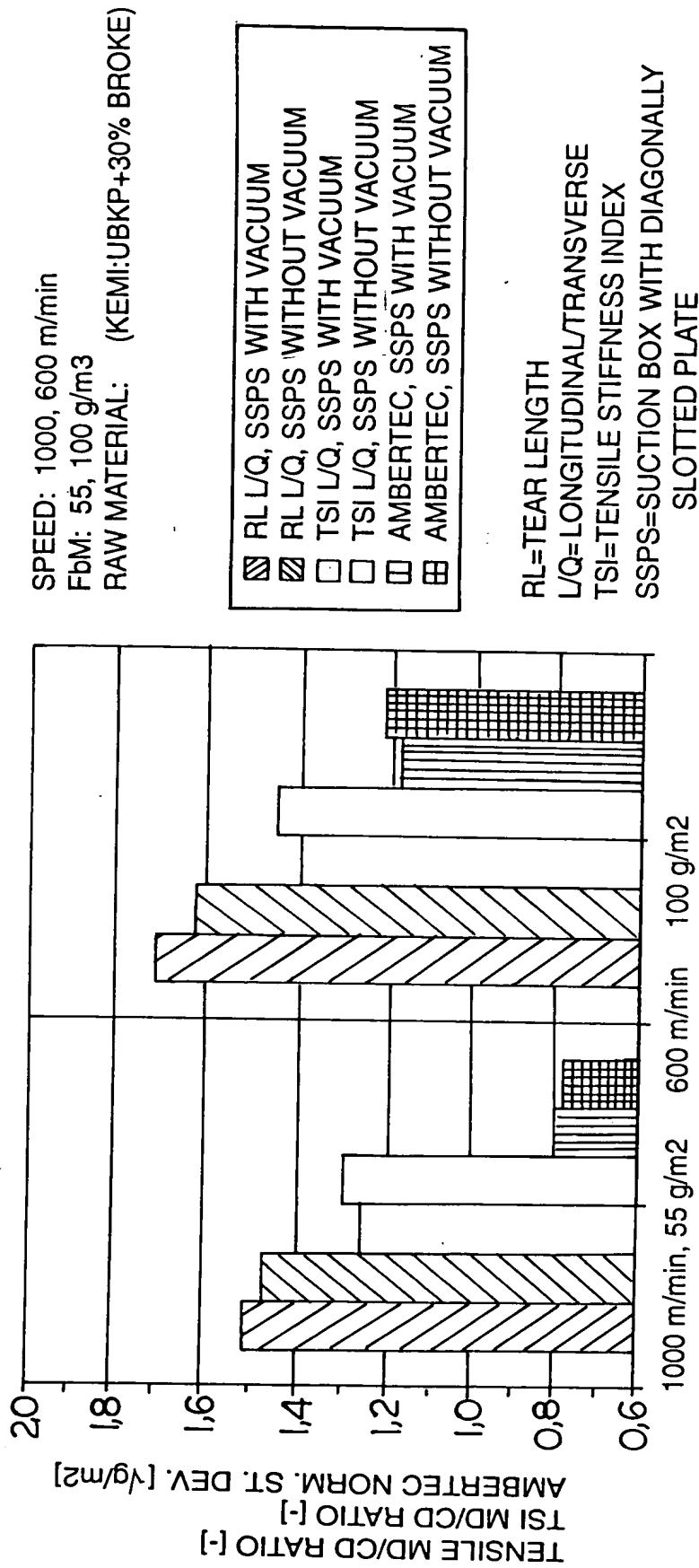
- RL L/Q, SSps WITH VACUUM
- ◊ RL L/Q, SSps WITHOUT VACUUM
- ▲ RL L/Q, FOILBOX WITH VACUUM

RL=TEAR LENGTH
L/Q=LONGITUDINAL/TRANSVERSE
SSps=SUCTION BOX WITH DIAGONALLY SLOTTED PLATE

FIG.13

SPEED DIFFERENTIAL V jet-V wire [m/min]

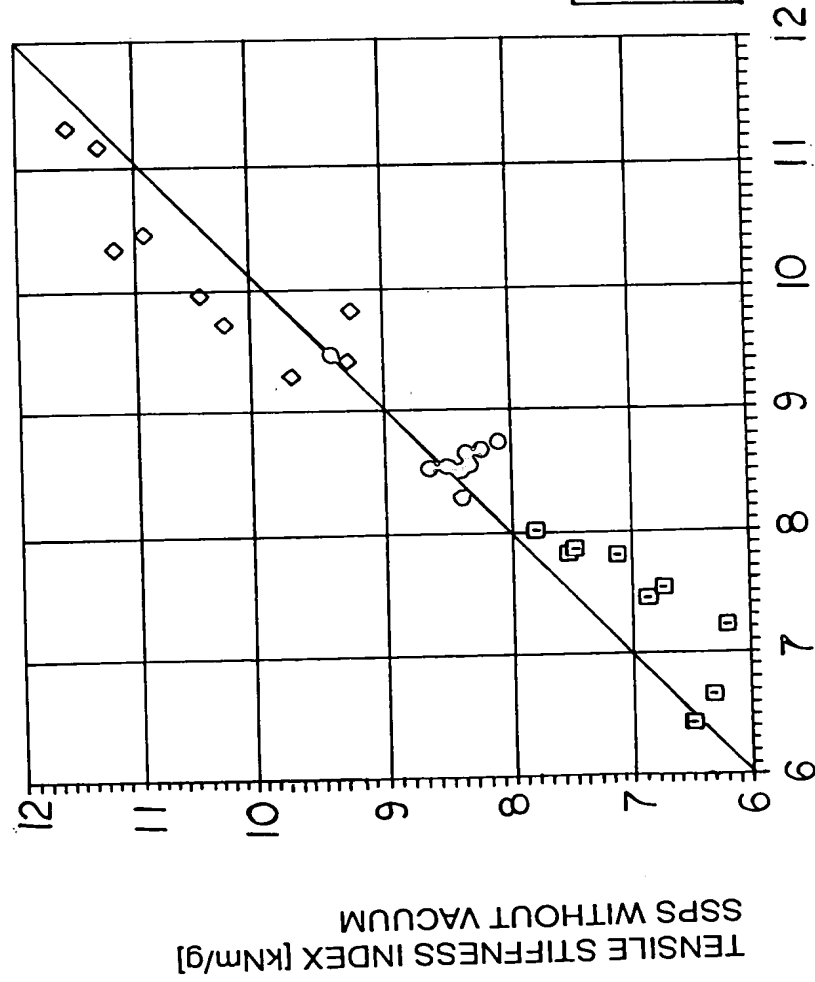
SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TENSILE STIFFNESS ORIENTATION WITH AND WITHOUT VACUUM



SPEED DIFFERENTIAL V jet-V wire [m/min]

FIG.14

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TENSILE STIFFNESS INDEX WITH AND WITHOUT
VACUUM ON SUCTION BOX

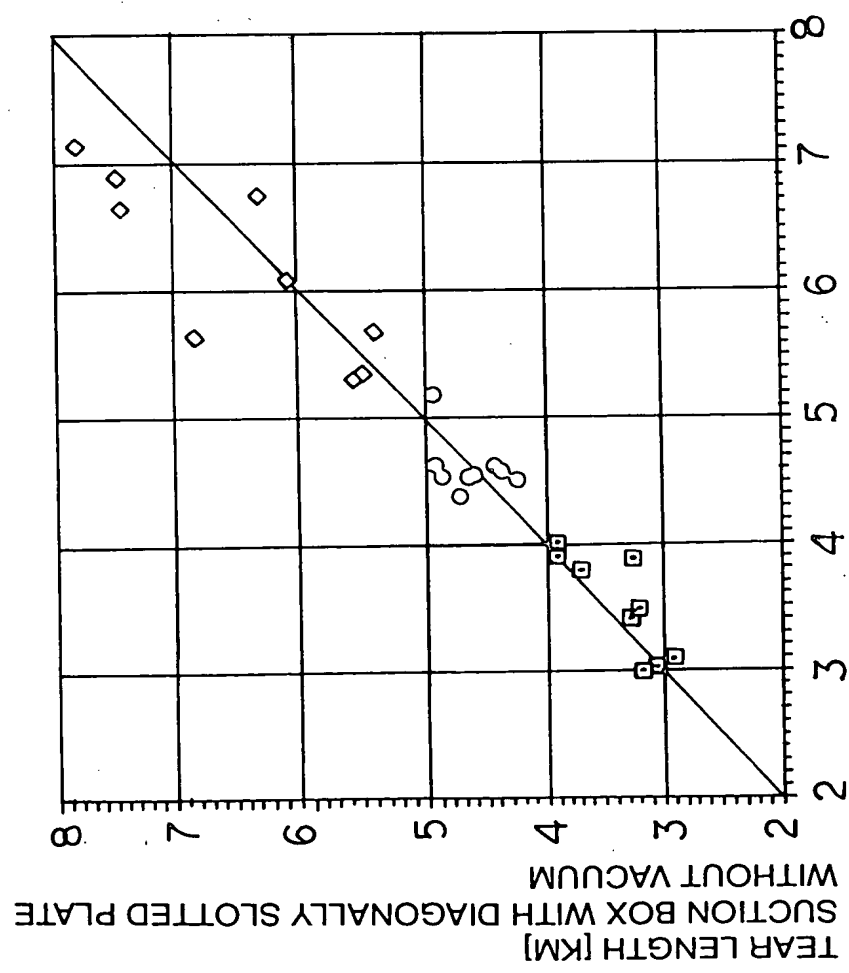


SPEED: 800 m/min
FbM: 55 g/m²
RAW MATERIAL: LF(KEMI:UBKP+30% BROKE)

FIG.15

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE WITH VACUUM

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
 TEAR LENGTH WITH AND WITHOUT VACUUM AT THE SUCTION BOX
 WITH DIAGONALLY SLOTTED PLATE



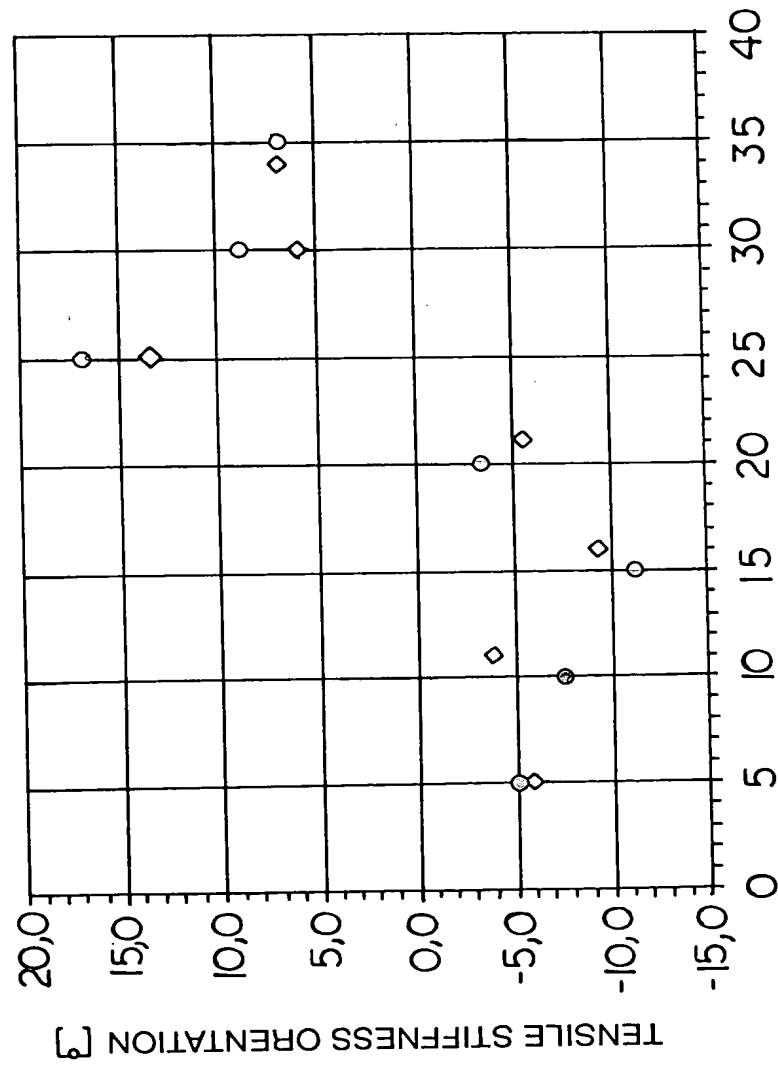
SPEED: 800 m/min
 FbM: 55 g/m²
 RAW MATERIAL: LF(KEMI:UBKP+30% BROKE)

- ◇ LONGITUDINAL
- ▣ TRANSVERSE
- GEOM.MEAN

FIG.16

TEAR LENGTH [KM]
 SUCTION BOX WITH DIAGONALLY SLOTTED PLATE

SUCTION BOX WITH DIAGONALLY SLOTTED PLATE
TENSILE STIFFNESS ORIENTATION WITH AND WITHOUT VACUUM



○ RL L/Q, SSPS WITH VACUUM
◇ RL L/Q, SSPS WITHOUT VACUUM

RL=TEAR LENGTH
L/Q=LONGITUDINAL/TRANSVERSE
SSPS=SUCTION BOX WITH DIAGONALLY
SLOTTED PLATE

FIG.17

SPEED DIFFERENTIAL V jet-V wire [m/min]

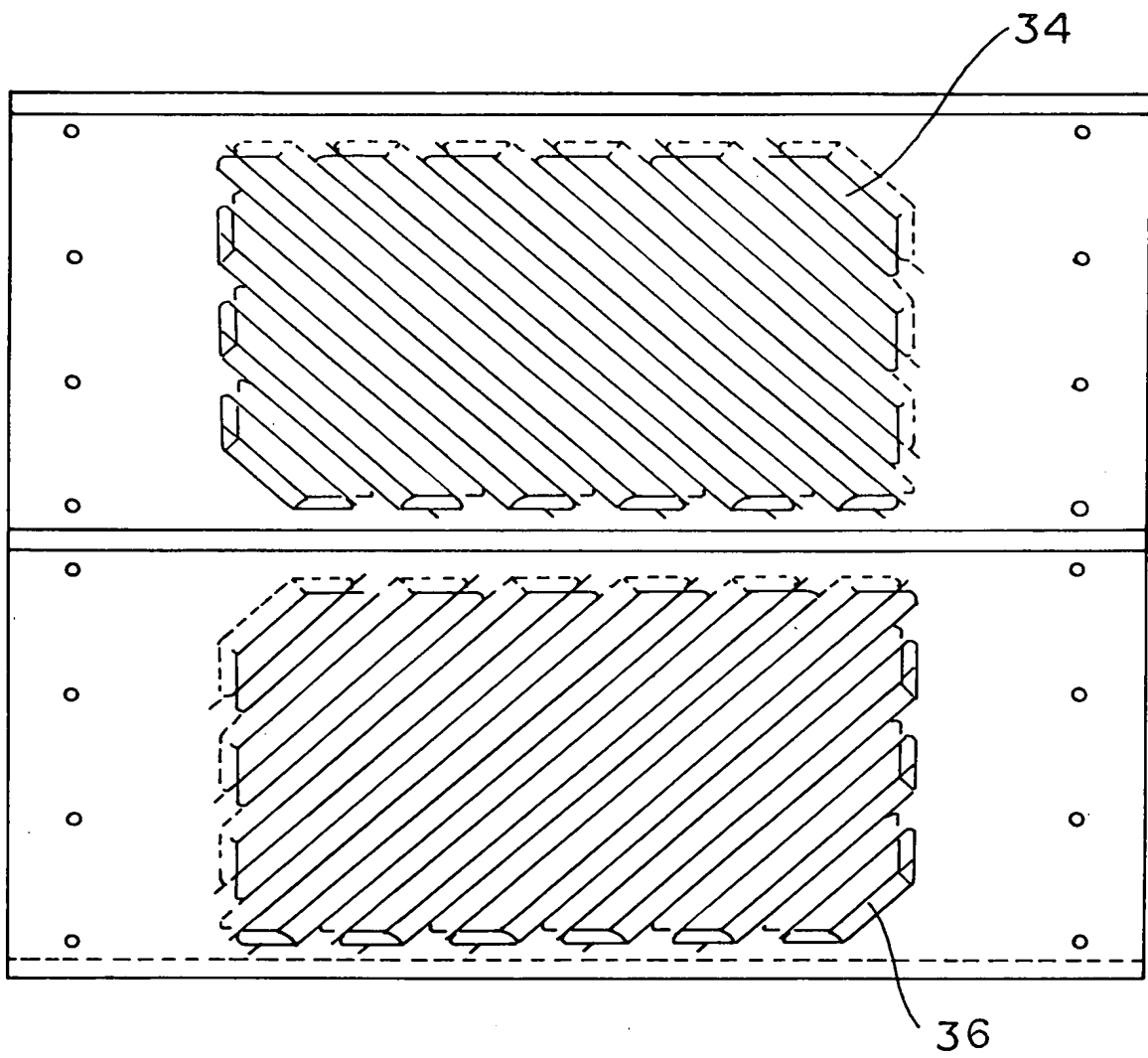


FIG. 18

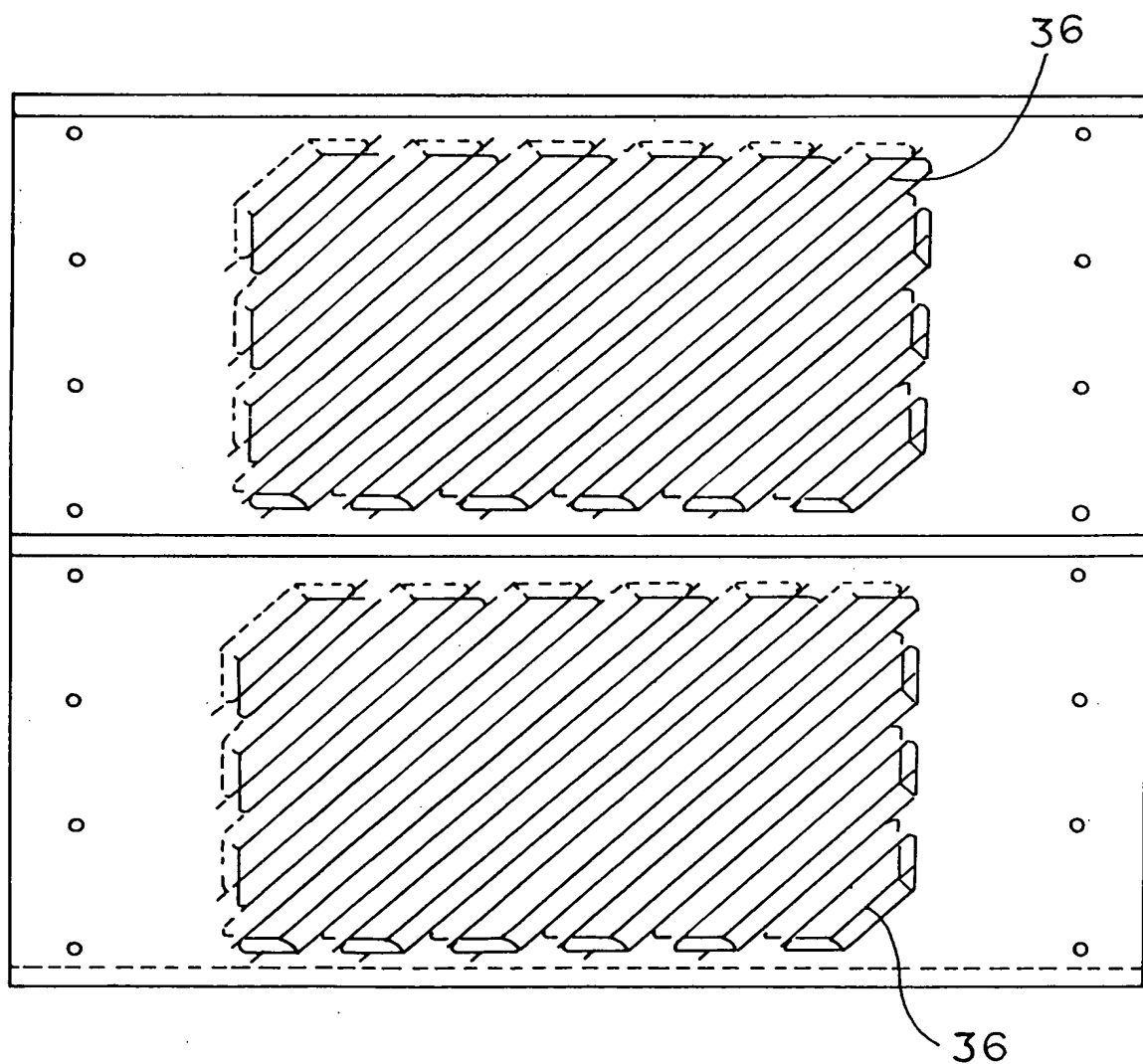
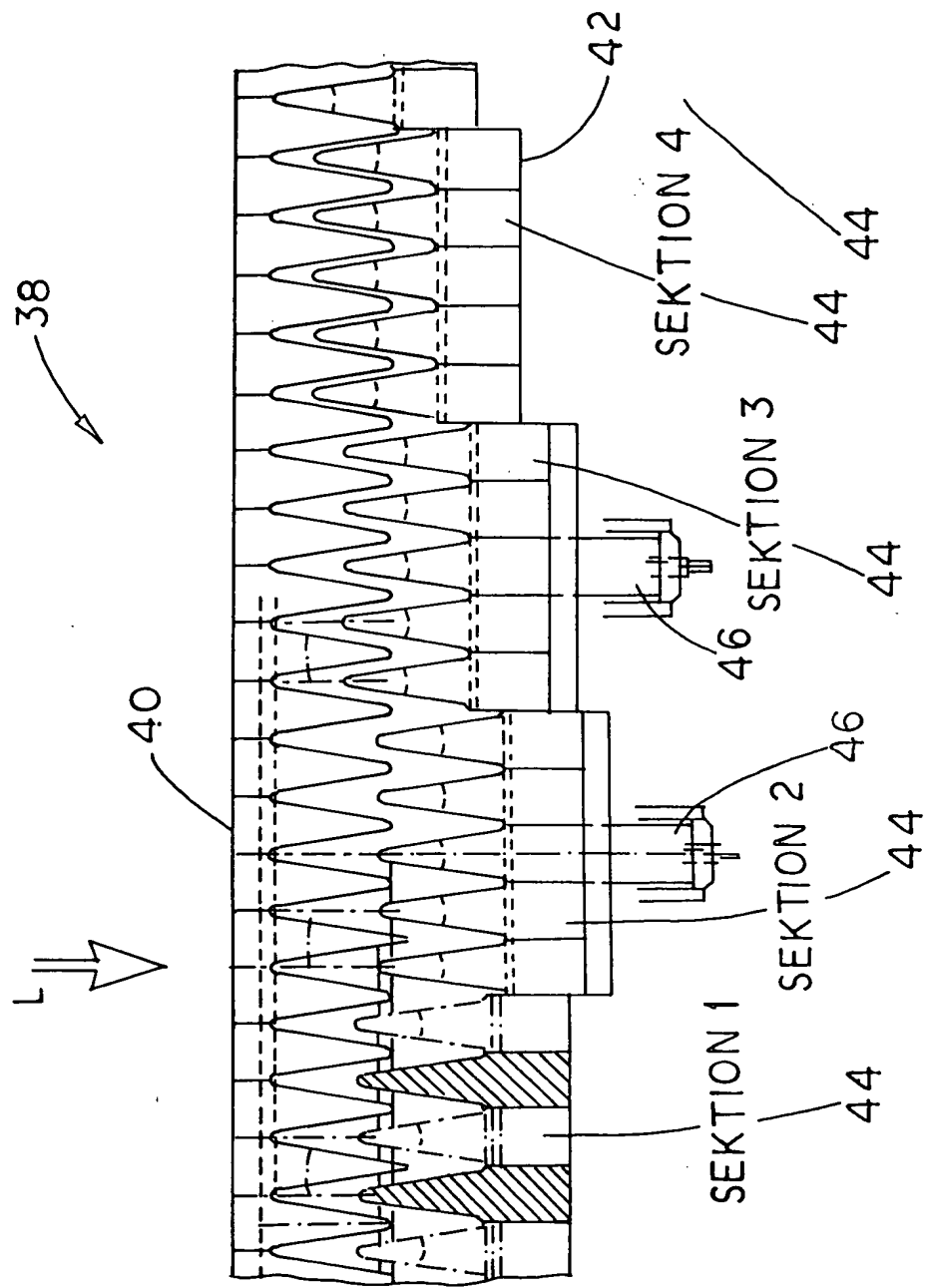


FIG. 19

FIG. 20



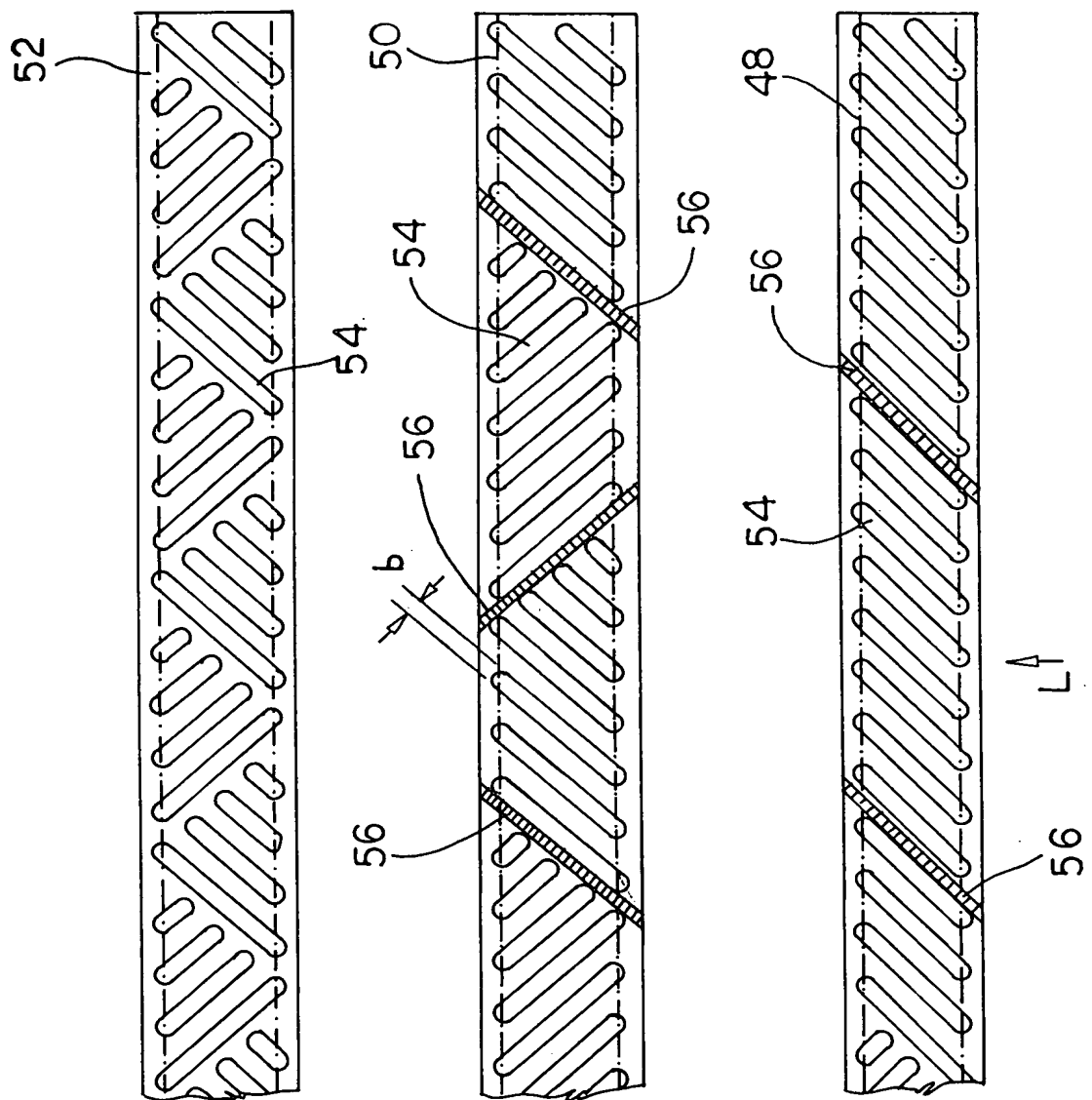


FIG. 21

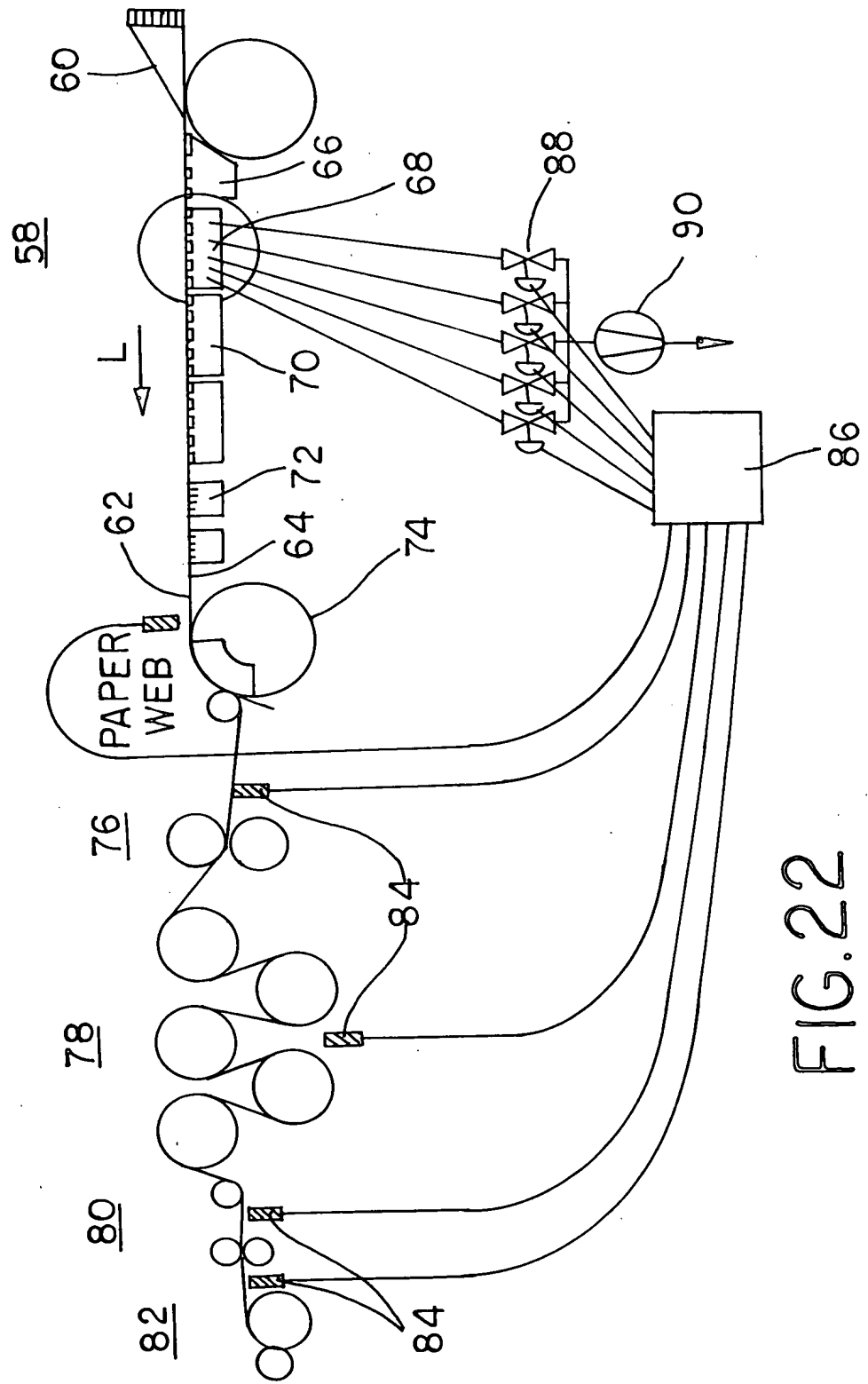


FIG.22